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AMENDMENTS TO THE CLAIMS

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Claim 1 (Currently amended): An apparatus, comprising: an optical transport for receiving an electromagnetic wave having a first property, said transport having a waveguiding region and one or more guiding regions coupled to said waveguiding region; and a transport influencer, operatively coupled to said optical transport and having at least a portion integrated with one or more guiding regions of said one or more guiding regions, for variably affecting a second property of said transport, wherein said second property influences said first property of said wave.

- Claim 2 (Original): The apparatus of claim 1 wherein said first property is a polarization plane and said second property is a magnetic field in said transport.
- Claim 3 (Original): The apparatus of claim 1 wherein said influencer produces a controllable magnetic field parallel to a propagation direction of said wave through said transport.
- Claim 4 (Original): The apparatus of claim 2 wherein said influencer produces a controllable magnetic field parallel to a propagation direction of said wave through said transport to alter said polarization plane of said wave.
- Claim 5 (Original): The apparatus of claim 2 wherein said influencer alters said polarization plane by changing a rotation angle of at least one component of said polarization plane in a range from about zero degrees to about ninety degrees.

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- Claim 6 (Original): The apparatus of claim 1 wherein said transport is a fiber waveguide including a core and a cladding corresponding to one or more of said one or more guiding regions and wherein said influencer includes a magnetic material integrated with said cladding.
- Claim 7 (Original): The apparatus of claim 6 wherein said magnetic material includes permanent magnetic material.
- Claim 8 (Original): The apparatus of claim 6 wherein said magnetic material is selectively magnetized responsive to an electric current.
- Claim 9 (Original): The apparatus of claim 6 wherein said magnetic material is integrated into said fiber waveguide.
- Claim 10 (Previously presented): An apparatus, comprising:

 an optical transport for receiving an electromagnetic wave having one
 of a right hand circular polarization or a left hand circular polarization,
 said transport having a waveguiding region and one or more guiding
 regions coupled to said waveguiding region; and
 a transport influencer, operatively coupled to said optical transport and
 having at least a portion integrated with one or more guiding regions of
 said one or more guiding regions, for controllably affecting a magnetic
 field of said transport to change a polarization angle of said wave.
- Claim 11 (Original): The apparatus of claim 10 wherein said influencer changes a polarization angle over a range of about zero degrees to about ninety degrees.
- Claim 12 (Original): The apparatus of claim 10 wherein said influencer produces a controllable magnetic field parallel to a propagation direction of said wave through said transport to alter said polarization angle.

- Claim 13 (Original): The apparatus of claim 11 wherein said influencer is responsive to a control signal for changing said polarization angle.
- Claim 14 (Original): The apparatus of claim 12 wherein said influencer is responsive to a control signal for changing said polarization angle.
- Claim 15 (Original): The apparatus of claim 11 wherein said influencer alters said polarization angle over a range from about zero degrees to about ninety degrees.
- Claim 16 (Original): The apparatus of claim 12 wherein said influencer alters said polarization angle over a range from about zero degrees to about ninety degrees.
- Claim 17 (Previously presented): The apparatus of claim 10 wherein said transport is a fiber waveguide including a core and a cladding corresponding to one or more guiding regions of said one or more guiding regions and wherein said influencer includes a magnetic material integrated with said cladding.
- Claim 18 (Original): The apparatus of claim 6 wherein said magnetic material includes permanent magnetic material.
- Claim 19 (Original): The apparatus of claim 6 wherein said magnetic material is selectively magnetized responsive to an electric current.
- Claim 20 (Original): The apparatus of claim 6 wherein said magnetic material is integrated into said fiber waveguide.
- Claim 21 (Canceled): A-method, comprising:

 receiving an electromagnetic wave having a first property at an optical transport, said transport having a waveguiding region and one or more

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guiding regions coupled to said waveguiding region; and affecting a second property of said transport using a transport influencer coupled to said optical transport and having at least a portion integrated with one or more guiding regions of said one or more guiding regions, wherein said second property influences said first property of said wave.

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- Claim 22 (Canceled): The method of claim 21 wherein said first property is a polarization plane and said second property is a magnetic field in said transport.
- Claim 23 (Canceled): The method of claim 21 wherein said influencer produces a controllable magnetic field parallel to a propagation direction of said wave through said transport.
- Claim 24 (Canceled): The method of claim 22 wherein said influencer produces a controllable magnetic field parallel to a propagation direction of said wave through said transport to alter said polarization plane of said wave.
- Claim 25 (Canceled): The method of claim 22 wherein said influencer alters said polarization plane by changing a rotation angle of at least one component of said polarization plane in a range from about zero degrees to about ninety degrees.
- Claim 26 (Canceled): The method of claim 21 wherein said transport is a fiber waveguide including a core and a cladding corresponding to one or more guiding regions of said one or more guiding regions and wherein said influencer includes a magnetic material integrated with said-cladding.

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- Claim 27 (Canceled): The method of claim 26 wherein said magnetic material includes permanent magnetic material.
- Claim 28 (Canceled): The method of claim 26 wherein said magnetic material is selectively magnetized responsive to an electric current.
- Claim 29 (Canceled): The-method-of-claim 26-wherein-said magnetic-material is integrated into said fiber waveguide.
- Claim 30 (Previously presented): An apparatus, comprising:

 means for receiving an electromagnetic wave having a first property at
 an optical transport, said transport having a waveguiding region and
 one or more guiding regions coupled to said waveguiding region; and
 means, operatively coupled to said receiving means and having at
 least a portion integrated with one or more guiding regions of said one
 or more guiding regions, for affecting a second property of said
 transport using a transport influencer coupled to said optical transport,
 wherein said second property influences said first property of said
 wave.
- Claim 31 (Original): The apparatus of claim 30 wherein said first property is a polarization plane and said second property is a magnetic field in said transport.
- Claim 32 (Original): The apparatus of claim 30 wherein said influencer produces a controllable magnetic field parallel to a propagation direction of said wave through said transport.
- Claim 33 (Original): The apparatus of claim 31 wherein said influencer produces a controllable magnetic field parallel to a propagation direction of said wave through said transport to alter said polarization plane of said wave.

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- Claim 34 (Original): The apparatus of claim 31 wherein said influencer alters said polarization plane by changing a rotation angle of at least one component of said polarization plane in a range from about zero degrees to about ninety degrees.
- Claim 35 (Previously presented): The apparatus of claim 30 wherein said transport is a fiber waveguide including a core and a cladding corresponding to one or more guiding regions of said one or more guiding and wherein said influencer includes a magnetic material integrated with said cladding.
- Claim 36 (Original): The apparatus of claim 35 wherein said magnetic material includes permanent magnetic material.
- Claim 37 (Original): The apparatus of claim 35 wherein said magnetic material is selectively magnetized responsive to an electric current.
- Claim 38 (Original): The apparatus of claim 35 wherein said magnetic material is integrated into said fiber waveguide.
- Claim 39 (Previously presented): An apparatus, comprising:

 a fiber waveguide for receiving an electromagnetic wave having a
 particular polarization, said waveguide having a core and one or more
 guiding regions disposed around said core; and
 a variable magnetic field generating structure, a portion of which is
 integrated with and operatively to one or more of said guiding regions,
 for producing a controllable variable magnetic field in said core
 responsive to a control signal, said controllable variable magnetic field
 variably changing said particular polarization responsive to said
 control signal.

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- Claim 40 (Canceled): A computer program product comprising a computer readable medium carrying program instructions for operating an apparatus when executed using a computing system, the executed program instructions executing a method, the method comprising: receiving an electromagnetic wave having a first property at an optical transport, said transport having a waveguiding region and one or more guiding regions coupled to said waveguiding region; and affecting a second property of said transport using a transport influencer coupled to said optical transport and having at least a portion integrated with one or more guiding regions of said one or more guiding regions, wherein said second property influences said first property of said wave.
- Claim 41 (Canceled): The computer program product of claim 40 wherein said first property is a polarization plane and said second property is a magnetic field in said transport.
- Claim 42 (Canceled): The computer program product of claim 40 wherein said influencer produces a controllable magnetic field parallel to a propagation direction of said wave through said transport.
- Claim 43 (Canceled): The computer program product of claim 41 wherein said influencer produces a controllable magnetic field parallel to a propagation direction of said wave through said transport to alter said polarization plane of said wave.
- Claim 44 (Canceled): The computer program product of claim 41 wherein said influencer alters said polarization plane by changing a rotation angle of at least one component of said polarization plane in a range from about zero degrees to about ninety degrees.

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Claim 45 (Canceled): The computer program product of claim 40 wherein said transport is a fiber waveguide including a core and a cladding corresponding to one or more guiding regions of said one or more guiding regions and wherein said influencer includes a magnetic material integrated with said cladding.

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- Claim 46 (Canceled): The computer program product of claim 45 wherein said magnetic material includes permanent magnetic material.
- Claim 47 (Canceled): The computer program product of claim 45 wherein said magnetic material is-selectively-magnetized-responsive-to-an electric current.
- Claim 48 (Canceled): The computer program product of claim 45 wherein said magnetic material is integrated into said fiber waveguide.
- Claim 49 (Canceled): A propagated signal on which is carried computerexecutable instructions which when executed by a computing system performs a method, the method comprising:
 receiving an electromagnetic wave having a first property at an optical transport, said transport having a waveguiding region and one or more guiding regions coupled to said waveguiding region; and affecting a second property of said transport using a transport influencer coupled to said optical transport and having at least a portion integrated with one or more guiding regions of said one or more guiding regions, wherein said second property influences said first property of said wave.
- Claim 50 (Canceled): The signal of claim 49 wherein said-first property is a polarization-plane and-said-second-property is a magnetic-field-in-said transport.

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- Claim 51 (Canceled): The signal of claim 49 wherein said influencer produces a controllable magnetic field parallel to a propagation direction of said wave through said transport.
- Claim 52 (Canceled): The signal of claim 50 wherein said influencer produces a controllable magnetic field parallel to a propagation direction of said wave through said transport to alter said polarization plane of said wave.
- Claim 53 (Canceled): The signal of claim 50 wherein said influencer alters said polarization plane by changing a rotation angle of at least one component of said polarization plane in a range from about zero degrees to about ninety degrees.
- Claim 54 (Canceled): The signal of claim 49 wherein said transport is a fiber waveguide including a core and a cladding corresponding to one or more guiding regions of said one or more guiding regions and wherein said influencer includes a magnetic material integrated with said cladding.
- Claim 55 (Canceled): The signal of claim 54 wherein said magnetic material includes permanent magnetic material.
- Claim 56 (Canceled): The signal of claim 54 wherein said magnetic material is selectively magnetized responsive to an electric current.
- Claim 57 (Canceled): The signal of claim 54 wherein said magnetic material is integrated into said fiber waveguide.
- Claim 58 (New): An apparatus, comprising:

 an optical transport for receiving an electromagnetic wave having a
 first property, said transport having a waveguiding channel and one or

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more guiding regions coupled to said waveguiding channel for inhibiting a radiation signal of said wave propagating in said waveguiding channel from exiting said waveguiding channel; and a transport influencer, operatively coupled to said optical transport and having at least a portion integrated with one or more guiding regions of said one or more guiding regions, for variably affecting a second property of said transport, wherein said second property influences said first property of said wave.

- Claim 59 (New): The apparatus of claim 58 wherein said first property is a polarization plane and said second property is a magnetic field in said transport.
- Claim 60 (New): The apparatus of claim 58 wherein said influencer produces a variably controllable magnetic field, responsive to a control signal, parallel to a propagation direction of said wave through said transport.
- Claim 61 (New): The apparatus of claim 59 wherein said influencer produces a variably controllable magnetic field, responsive to a control signal, parallel to a propagation direction of said wave through said transport to alter said polarization plane of said wave.
- Claim 62 (New): The apparatus of claim 59 wherein said influencer alters said polarization plane by changing a rotation angle of at least one component of said polarization plane over a range from about zero degrees to about ninety degrees.
- Claim 63 (New): The apparatus of claim 58 wherein said transport includes a fiber waveguide, said waveguiding channel including a core and said one or more guiding regions including one or more cladding layers for

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said core and wherein said influencer includes a magnetic material integrated with said cladding during manufacture of said transport.

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- Claim 64 (New): The apparatus of claim 63 wherein said magnetic material includes permanent magnetic material.
- Claim 65 (New): The apparatus of claim 63 wherein said magnetic material is selectively magnetized responsive to an electric current.
- Claim 66 (New): The apparatus of claim 63 wherein said magnetic material is integrated into said fiber waveguide during fiber manufacturing.
- Claim 67 (New): The apparatus of claim 58 wherein said radiation signal is in the visible spectrum.
- Claim 68 (New): The apparatus of claim 58 wherein said waveguiding channel includes Verdet constant increasing elements.
- Claim 69 (New): The apparatus of claim 58 wherein said transport includes a bulk device.
- Claim 70 (New): The apparatus of claim 58 wherein said one or more guiding regions includes a first guiding region provided with a modifying material to modify a transport property of said waveguiding channel without influencing said second property.
- Claim 71 (New): The apparatus of claim 59 wherein said one or more guiding regions includes a first guiding region provided with a magnetic material to modify a magnetic property of said waveguiding channel without modifying a component of said magnetic field in said transport that is parallel to a propagation axis through said waveguiding channel.

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- Claim 72 (New): The apparatus of claim 58 wherein said one or more guiding regions includes a second guiding region provided with a modifying material to modify said second property.
- Claim 73 (New): The apparatus of claim 59 wherein said one or more guiding regions includes a second guiding region provided with a second magnetic material to modify a component of said magnetic field in said transport that is parallel to a propagation axis through said waveguiding channel.
- Claim 74 (New): The apparatus of claim 58 wherein said one or more guiding regions includes a first guiding region provided with a first modifying material to modify a transport property of said waveguiding channel without influencing said second property and wherein said one or more guiding regions includes a second guiding region provided with a second modifying material to modify said second property.
- Claim 75 (New): The apparatus of claim 59 wherein said one or more guiding regions includes a first guiding region provided with a first magnetic material to modify a magnetic property of said waveguiding channel without modifying a component of said magnetic field in said transport that is parallel to a propagation axis through said waveguiding channel and wherein said one or more guiding regions includes a second guiding region provided with a second magnetic material to modify a component of said magnetic field in said transport that is parallel to a propagation axis through said waveguiding channel.
- Claim 76 (New): The apparatus of claim 75 wherein said radiation signal includes a component in a spectrum visible to the unaided human eve.

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